CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/226a/Cube/2016-17 28.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements to CC roads to Ravindranagara slum and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/96/2016-17 Dated: 22.12.2016
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.12.2016	28.01.2017	8.228	475.5	21.13
2	31.12.2016	28.01.2017	8.337	490.3	21.79
3	31.12.2016	28.01.2017	8.407	516.3	22.95

*Information is furnished by the Customer/Representative.

Note:

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VIDYARANI P.K.
Technical Manager

AE-13
28/1

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/226a/Cube/2016-17

28.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements to CC roads to Ravindranagara slum and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/96/2016-17 Dated: 22.12.2016
* Sample ID	:	RCC Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.12.2016	28.01.2017	8.189	490.3	21.79
2	31.12.2016	28.01.2017	8.298	516.8	22.97
3	31.12.2016	28.01.2017	8.338	538.9	23.95

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Civil-Tech Consultants & Engineers Bangalore

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VIDYARANI P.K.
Technical Manager

AE-3
28/1

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T-2377

Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/226a/Pre Slab/2016-17

02.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements to CC roads to Ravindranagara slum and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/96/2016-17 Dated: 22.12.2016
* Sample ID	:	Precast Slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	28.12.2016
Date of Testing	:	02.01.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.386	2520.36	1.56	0.952	30.25	15.41	16.64	17.47	21.84
2	50.00	79.00	0.392	2527.14	1.58	0.955	32.50	16.55	17.88	17.07	21.33
3	50.00	80.00	0.398	2533.75	1.60	0.957	33.80	17.21	18.59	17.79	22.24

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VIDYARANI P.K.
Technical Manager

AE-13

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Job No.: CTCE/BBMP/KRIDL/W.No.13/CSR-12/226a/Cube/2016-17 03.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements to CC roads to Ravindranagara slum and other roads in Ward No.13, Shettyhalli Sub Division, BBMP, Bangalore.
* Reference	:	AEE/SSD/PR/96/2016-17 Dated: 22.12.2016
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	03.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2017	03.02.2017	8.155	480.3	21.35
2	06.01.2017	03.02.2017	8.228	485.7	21.59
3	06.01.2017	03.02.2017	8.302	514.3	22.86

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VIDYARANI P.K.
Technical Manager

AE-13

3/2

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	03.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2017	03.02.2017	8.226	478.3	21.26
2	06.01.2017	03.02.2017	8.305	490.5	21.80
3	06.01.2017	03.02.2017	8.407	512.7	22.79

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Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	03.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2017	03.02.2017	8.226	478.3	21.26
2	06.01.2017	03.02.2017	8.305	490.5	21.80
3	06.01.2017	03.02.2017	8.407	512.7	22.79

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